

Viral RNA / DNA purification products from MACHEREY-NAGEL



Viral RNA and DNA for In-Vitro Diagnostics

*CE-IVD marked isolation of viral RNA and DNA
from human plasma and serum*

NucleoSpin® Dx Virus



CE-IVD marked in accordance with EU Directive 98/79/EC
For EDTA and citrate treated samples
Highly sensitive and reliable extraction
... even from a broad range of viral titers

MACHEREY-NAGEL

www.mn-net.com



Since 1911

NucleoSpin® Dx Virus

Viral RNA and DNA from human plasma and serum for *in-vitro* diagnostics

▶ **CE-IVD marked in accordance with EU Directive 98/79/EC**

Compliant with IVD directives in the EU

▶ **Fits into *in-vitro* diagnostic workflows**

CE-marked viral RNA and DNA isolation from plasma and serum

Can be combined with common enzymatic amplification and detection of viral RNA or DNA

▶ **Compatible with fresh or frozen samples treated with EDTA or citrate**

▶ **Highly consistent viral RNA and DNA isolation**

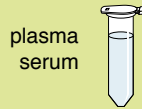
Reproducible isolations from different titers for reliable downstream applications

▶ **Suitable for animal samples**

The intended use allows veterinary applications, which are non-IVD

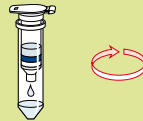
Procedure

Sample lysis



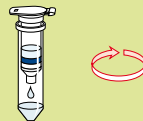
Mix sample and Lysis Buffer containing carrier RNA
Add Proteinase K for viral DNA extraction
5 min incubation

Binding of viral RNA/DNA



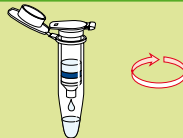
Add ethanol and transfer lysate onto
NucleoSpin® Dx Virus Column

Washing



Pipette 1st Wash Buffer (high salt concentration)
Pipette 2nd Wash Buffer (low salt concentration)

Elution of viral RNA/DNA



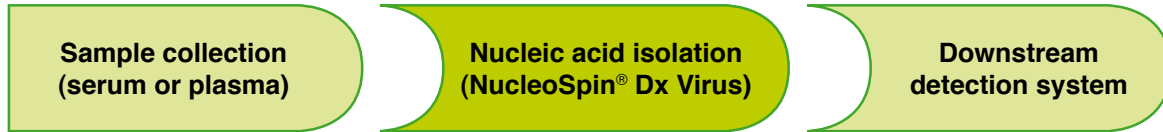
Elute in 50 µL RNase-free water or elution buffer

Product at a glance

Technology	Silica-membrane technology
Format	Mini spin columns
Sample material	Plasma or serum, fresh or frozen, EDTA or citrate treated
Sample volume	150 µL
Elution volume	50 µL
Processing	Centrifugation
Preparation time	~30 min / 4 – 6 preps



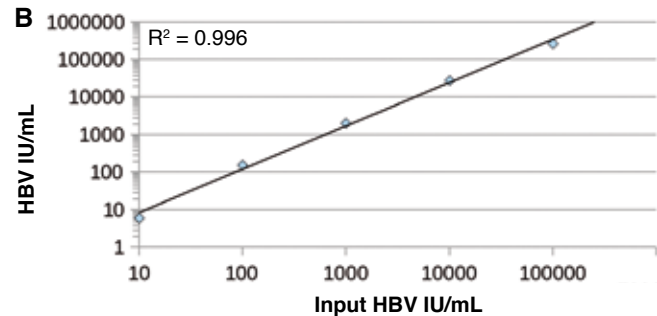
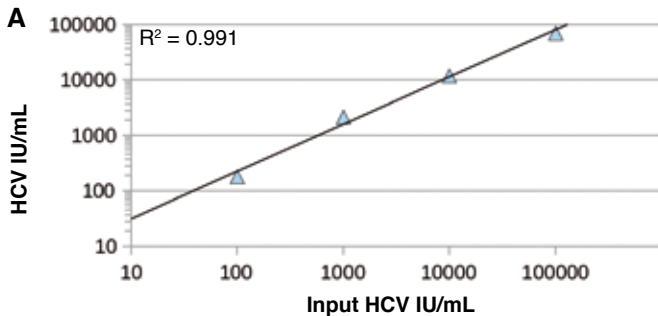
Reliable isolation of viral nucleic acids for diagnostic workflows



NucleoSpin® Dx Virus is a generic kit which can easily be integrated into *in-vitro* diagnostic workflows. The kit allows the purification of nucleic acid from different viruses and can be used in combination with a broad range of downstream assay systems. The system is suitable for fresh and frozen samples treated with EDTA or citrate.

Application data

CE-marked procedure – sensitive viral DNA and RNA detection

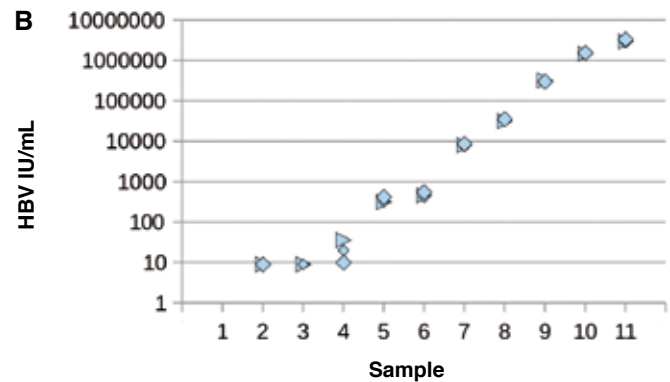
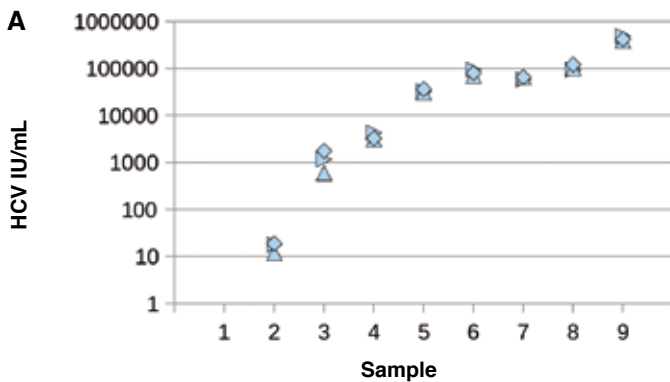


Detection of viral RNA and DNA in Real-time PCR (Artus RealArt HCV RNA/ HBV DNA; Roche LightCycler® 480), purified by NucleoSpin® Dx Virus. Nucleic acids were purified from virus samples of different titers and used for quantification.

- A) Detection of RNA from HCV samples of different titers.
- B) Detection of DNA from HBV samples of different titers.

Data was generated by Dr. Tiemann, LABCON-OWL GmbH, Germany.

High reproducibility of isolation and detection



Reproducibility of HCV and HBV detection. RNA and DNA from virus samples of different titers were isolated in triplicate by NucleoSpin® Dx Virus for downstream diagnostic quantification.

- A) Detection of RNA from HCV samples of different titer. Sample 1: negative control, sample 2: positive control at lowest detection limit, sample 3 – 9: different HCV titer. Detection: Artus RealArt HCV RNA; Roche LightCycler® 480.
- B) Detection of DNA from HBV samples of different titer. Sample 1: negative control, sample 2: positive control at lowest detection limit, sample 3 – 11: different HBV titer. Detection: Artus RealArt HBV DNA; Roche LightCycler® 480.

Data was generated by Dr. Tiemann, LABCON-OWL GmbH, Germany.

Ordering information

Single prep (spin columns) – CE-IVD marked	Preps	REF
NucleoSpin® Dx Virus	50/250	740895.50/.250
CE-IVD marked Mini spin kit for the isolation of viral DNA and RNA from 150 µL human plasma or serum.		

Related products

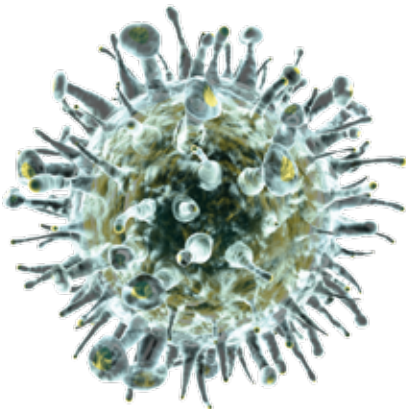
Single prep (spin columns) – CE-IVD marked	Preps	REF
NucleoSpin® Dx Blood	50/250	740899.50/.250
CE-IVD marked Mini spin kit for the isolation of genomic DNA from 200 µL human whole blood.		

Single prep (spin columns) – not CE-IVD marked	Preps	REF
NucleoSpin® RNA Virus	10/50/250	740956.10/.50/.250
Mini spin kit for the rapid isolation of viral RNA from plasma or serum. For viral DNA isolation, Proteinase K is required (740506).		

NucleoSpin® RNA Virus F	25	740958
Spin kit for RNA isolation from cell-free biological fluids with funnel shaped columns. Large samples of up to 1 mL can be processed and eluted in small volumes (50 – 100 µL).		

NucleoSpin® Plasma XS	10/50/250	740900.10/.50/.250
Mini spin kit for the rapid purification of circulating DNA from plasma or serum. High recovery, even of short DNA fragments (down to 50 bp). Concentrated DNA eluate due to XS column design (elution in 5 – 30 µL).		

Medium and high throughput – not CE-IVD marked	Preps	REF
NucleoSpin® 8 Virus	12 x 8/60 x 8	740643/.5
8-well strips for medium throughput isolation of viral RNA and DNA.		
NucleoSpin® 8 Virus Core Kit	48 x 8	740451.4
Core kit with basic components: NucleoSpin® Virus Binding Strips, buffers, Carrier RNA.		
NucleoSpin® 96 Virus	2 x 96/4 x 96	740691.2/.4
96-well plates for high-throughput isolation of viral RNA and DNA.		
NucleoSpin® 96 Virus Core Kit	4 x 96	740452.4
Core kit with basic components: NucleoSpin® Virus Binding Plate, buffers, Carrier RNA.		
NucleoMag® 96 Virus	1 x 96/4 x 96	744800.1/.4
Isolation of viral RNA and DNA with magnetic beads.		



Your local distributor

www.mn-net.com

MACHERY-NAGEL



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